



## KÖSTER LF-VL

Technical Data Sheet CT 271

Issued: 2019-04-30

MPI Aldendorf - test certificate 12 6950-S/13 - single testing for anti-slip characteristics according to DIN 51130 - "R 10"

### Self levelling industrial floor coating. Solvent free, pigmented, epoxy based

	KÖSTER BAUCHEMIE AG Dieselstraße 1-10, 26607 Aurich 13 CT 271 EN 13813:2002 KÖSTER LF-VL Synthetic resin for internal uses
Reaction to fire	B2
Release of corrosive substances	SR
Water permeability	NPD
Wear resistance	≤ AR 0.5
Bond strength	≥ B 2.0
Impact resistance	≥ IR 1
Sound insulation	NPD
Sound absorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD
Dangerous substances	NPD

sandblasting, scarifying, or milling. Of these options shot blasting is the superior preparation method. Dust must be completely removed. Cracks and surface coarseness greater than 5 mm must be filled with KÖSTER LF-BM and can be worked over after 24 hours. As primer a layer of KÖSTER LF-BM broadcast with kiln dried silica sand is used. Substrates with high vapor drive should be treated with KÖSTER VAP I 2000.

#### Application

Both A and B components must be brought to a temperature between + 15 °C and + 25 °C before application. The components are mixed thoroughly at least 3 min with a mechanical stirring device (below 400 rpm) until a homogeneous consistency is reached.

To avoid defects due to insufficient mixing, repot the material and mix it again. Special care is to be taken that material sticking to the sides of the mixing vessel is mixed in.

#### Features

KÖSTER LF-VL is a solvent free, pigmented floor covering for industrial uses. KÖSTER LF-VL is self levelling and possesses a high abrasion resistance.

#### Technical Data

Consistency	Approx. 2000 mPa*s (+ 23 °C)
Mixing ratio (weight)	5.7 : 1 (A : B)
Pot life	at + 12 °C 60 minutes at + 23 °C 40 minutes
Density	1.34 g / cm <sup>3</sup>
Color	approx. RAL 7032: Pebble grey, other colors on request
Application temperature	Minimum + 10 °C
Dew point temp. difference	Minimum + 3 °C
Compressive strength (28 d)	> 50 N / mm <sup>2</sup>
Bending tensile strength (28 d)	> 12 N / mm <sup>2</sup>
Tensile strength (7 d) on concrete (min. C 50/60)	> 1.5 N / mm <sup>2</sup>

The full mechanical and chemical strength is reached after 7 days at + 23 °C and 65% rel. Humidity.

#### Fields of Application

KÖSTER LF-VL is a decorative floor covering with high abrasion resistance and can be applied on screed or cement based floors, (minimum tensile strength of the substrate 1.5 N / mm<sup>2</sup>). KÖSTER LF-VL is suitable for multi-function halls, business rooms, offices, production facilities, garages, and many other areas. The fresh coating can be broadcast with kiln dried quartz sand for slip resistance.

#### Substrate

The substrate must be dry, free of loose particles as well as free of oil and grease. Contaminated, machine-troweled, and unstable surfaces must be removed down to a coatable layer by shot blasting,

After defining the dew point the components are mixed. The surface and room temperature must be at least + 3 °C above the dew point during and for 24 hours after application. Application is done with a squeegee or trowel in two layers. Consumption per layer is 1.3 kg / m<sup>2</sup>. A second layer must be applied within 24 hours of the first. After the material has been emptied onto the substrate, it can be smoothed with a squeegee. Immediately after smoothing the material should be de-aerated with a spiked roller rolled in two directions 90° to another. Spiked shoes must be worn during application while walking over the fresh material.

#### Consumption

2.6 kg / m<sup>2</sup> (2 mm total layer thickness)

#### Cleaning

Clean tools immediately after use with KÖSTER Universal Cleaner.

#### Packaging

CT 271 006	6.7 kg combipackage; component A 5.7 kg; component B 1 kg
CT 271 026	26.8 kg combipackage; component A 22.8 kg; component B 4 kg

#### Storage

Store the material in a dry environment between + 5 °C and + 25 °C. In originally sealed containers it can be stored for a minimum of 12 months.

#### Safety

Wear gloves and goggles while processing KÖSTER LF-VL.

#### Other

Liquid polymers react to temperature fluctuations by changing their

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viscosity and/or curing behavior. Application should only be carried out during falling or constant temperatures. Low temperatures will slow the reaction; high temperatures and mixing large volumes will increase the reaction rate. Protect the coating from moisture of all kinds during application and curing.

#### Related products

KÖSTER LF-BM	Prod. code CT 160
KÖSTER VAP I 2000	Prod. code CT 230
KÖSTER TS transparent	Prod. code CT 320
KÖSTER Color-Chips	Prod. code CT 429
Quartz Sand 0.20 - 0.80 mm	Prod. code CT 482
Quartz Sand 0.06 - 0.36 mm	Prod. code CT 483
Quartz Sand 0.7 - 1.2 mm	Prod. code CT 485
Quartz Sand 1.0 - 2.0 mm	Prod. code CT 486
Quartz Sand 0.4 - 0.8 mm	Prod. code CT 488
KÖSTER Spiked Roller	Prod. code CT 914 001
KÖSTER Gauging rake	Prod. code CT 915 001
KÖSTER Universal Cleaner	Prod. code X 910 010

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KÖSTER BAUCHEMIE AG • Dieselstraße 1-10 • D-26607 Aurich • Tel. 04941/9709-0 • Fax -40 • [info@koester.eu](mailto:info@koester.eu) • [www.koester.eu](http://www.koester.eu)